From: "Mancuso, Joseph A." <X2JMANCU@southernco.com>
To: "Kenny Nguyen" <KDN@nrc.gov>
Date: 5/3/2007 12:44:15 PM
Subject: Phone Call - Pre-Flight Diagnostic for VEGP ESP Rev 2
cc: "Christian Araguas" <CJA2@nrc.gov>

<<ESP Rev 2 Pre-Flight PRINT SCREEN.doc>>

Joe Mancuso
Nuclear Development
Southern Nuclear
205.992.7516 Office
205.992.5294 Fax

Hearing Identifier: Vogtle_Public
Email Number: 368

Mail Envelope Properties (463F419C.HQGWDO01.TWGWPO04.200.2000002.1.6FCB2.1)

Subject: Phone Call - Pre-Flight Diagnostic for VEGP ESP Rev 2
Creation Date: 5/3/2007 12:44:15 PM
From: "Mancuso, Joseph A." <X2JMANCU@southernco.com>

Created By: X2JMANCU@southernco.com

Recipients "Christian Araguas" <CJA2@nrc.gov>
"Kenny Nguyen" <KDN@nrc.gov>

Post Office	**Route**
TWGWPO04.HQGWDO01	nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	145	5/3/2007 12:44:15 PM
ESP Rev 2 Pre-Flight PRINT SCREEN.doc	3815936	5/7/2007 3:11:24 PM
Mime.822	5343896	5/7/2007 3:11:24 PM

Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard

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    - Summary
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    - Page 57: Color image 1098.0x86.76 pt 223.0164 ppi RGB (ICC) overprint: off
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    - Page 115: Color image 393.552x63.612 pt 150.0183 ppi CMYK (ICC) overprint: off
    - Page 117: Color image 541.092x87.432 pt 239.915 ppi RGB (ICC) overprint: off
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    - Page 117: Color image 541.092x26.292 pt 239.915/238.247 ppi RGB (ICC) overprint: off
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    - Page 236: Color image 586.08x199.86 pt 166.585 ppi RGB (ICC) overprint: off
    - Page 237: Color image 573.84x200.28 pt 166.123 ppi RGB (ICC) overprint: off
    - Page 237: Color image 573.84x200.22 pt 166.123 ppi RGB (ICC) overprint: off
    - Page 238: Color image 576.72x199.5 pt 166.292 ppi RGB (ICC) overprint: off
    - Page 238: Color image 576.72x199.5 pt 166.292 ppi RGB (ICC) overprint: off
    - Page 239: Color image 570.24x201.24 pt 165.909 ppi RGB (ICC) overprint: off
    - Page 239: Color image 570.24x201.18 pt 165.909 ppi RGB (ICC) overprint: off
  - PDF version is newer than 1.3
  - Image uses lossy compression (1 match on 1 page)

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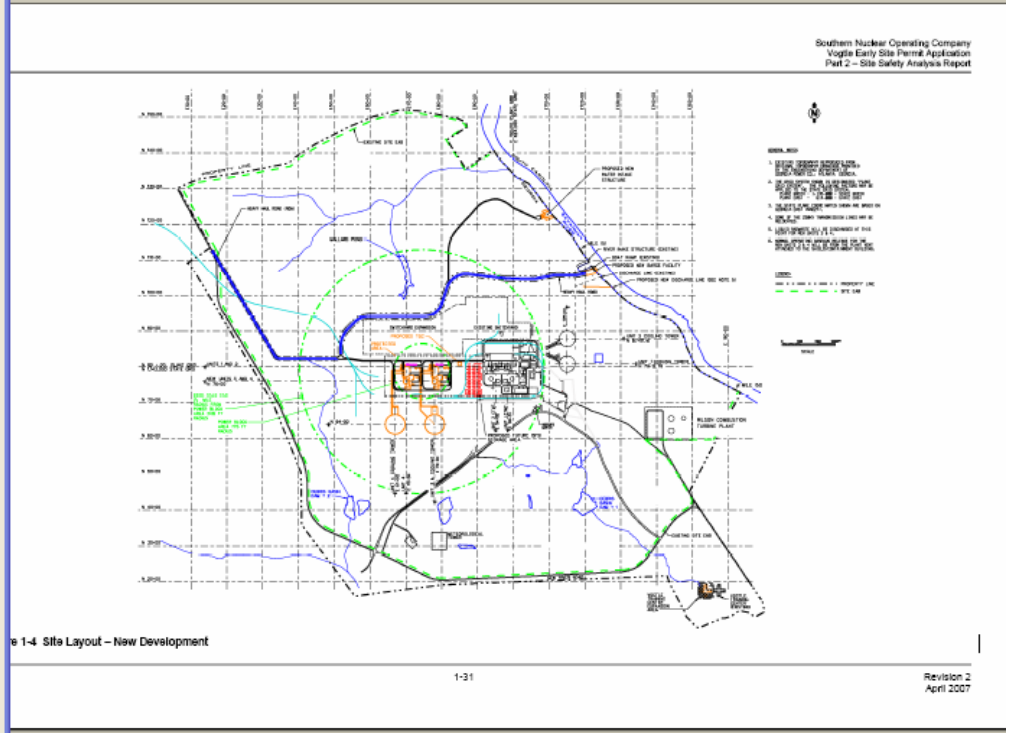
Find: | Previous | Next

Line Style | 1 pt | Line Thickness | Arrow | Opacity | Author: x2jmancu | Keep tool selec



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start | 2 Microsoft Of... | S:\Workgroups\... | 6 Adobe Acro... | Nuclear Development | ESP | 10:55 AM

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    - Summary
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    - Page 57: Color image 1098.0x86.76 pt 223.0164 ppi RGB (ICC) overprint: off
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  - PDF version is newer than 1.3
  - Image uses lossy compression (1 match on 1 page)

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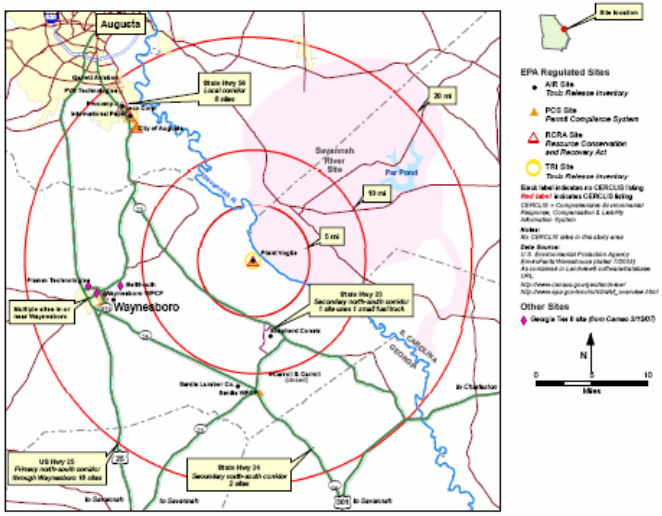
38% | Select Object Tool | Article Tool | Crop Tool | TouchUp Text To

Find: | Previous | Next

Line Style | 1 pt | Line Thickness | Arrow | Opacity | Author: x2jmancu | Keep tool selec



ure 2.2-4 Corridor Analysis

Hide Toolbars | 117 of 242

start | 2 Micros... | S:\Workg... | 6 Adob... | PRINT SC... | Nuclear Development | ESP | 10:56 AM

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Preflight check "NRC-10CFR1(2)" found the following errors:

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      - Page 70: Image mask 2.16x3.84 pt 299.999 ppi colored with a Pattern overprin
      - *Page 70: Remaining matches (49) not displayed*
  - Continuous tone image resolution lower than specified (65 matches on 30 pages)
  - PDF version is newer than 1.3
  - Uses layers
  - Image uses lossy compression (3 matches on 3 pages)

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59% | Select Object Tool | Article Tool | Crop Tool | TouchUp Text Tool

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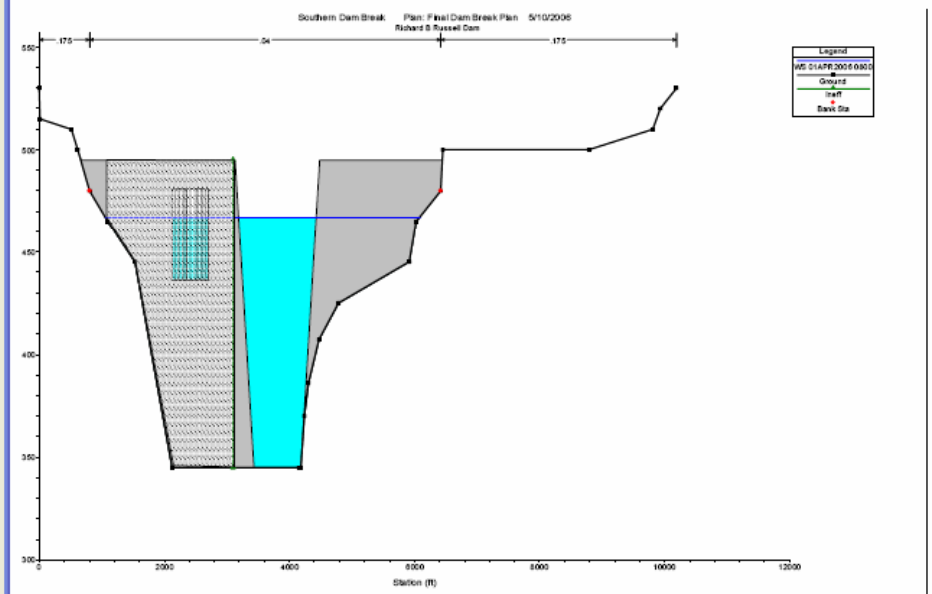
Line Style | 1 pt | Line Thickness | Arrow | Opacity | Author: x2jmancu | Keep tool selected

Southern Nuclear Operating Company
Vogtle Early Site Permit Application
Part 2 – Site Safety Analysis Report



gure 2.4.4-8 Richard B. Russell Dam Cross Section

Hide Toolbars | 71 of 230

start | 2 Micros... | S:\Workg... | 5 Adob... | PRINT SC... | Nuclear Development | ESP | 11:00 AM

Preflight

Profiles | Results | Report | Comments | Edit | Options

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  - Page 21: Color image 205.08x145.08 pt 60.0351 ppi RGB (ICC) overprint: off
  - Page 25: Color image 867.12x561.6 pt 191.143 ppi RGB (ICC) overprint: off
  - Page 38: Color image 652.08x844.08 pt 281.561 ppi RGB (ICC) overprint: off
  - Page 65: Color image 533.52x358.68 pt 95.951 ppi RGB (ICC) overprint: off
  - Page 66: Color image 533.52x362.88 pt 100.0 ppi RGB (ICC) overprint: off
  - Page 67: Color image 534.24x357.06 pt 96.361 ppi RGB (ICC) overprint: off
  - Page 68: Color image 528.84x348.48 pt 92.308/100.0 ppi RGB (ICC) overprint: off
  - Page 68: Color image 528.84x30.96 pt 92.308/100.0 ppi RGB (ICC) overprint: off
  - Page 69: Color image 528.84x329.94 pt 92.308 ppi RGB (ICC) overprint: off
  - Page 69: Color image 528.84x33.54 pt 92.308 ppi RGB (ICC) overprint: off
  - Page 72: Color image 564.48x399.06 pt 128.444 ppi RGB (ICC) overprint: off
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  - Page 75: Color image 616.32x404.7 pt 116.706 ppi RGB (ICC) overprint: off
  - Page 95: Color image 435.06x321.72 pt 95.987 ppi RGB (ICC) overprint: off
  - Page 180: Color image 648.24x409.08 pt 218.253 ppi RGB (ICC) overprint: off
  - Page 181: Color image 648.24x410.4 pt 217.475 ppi RGB (ICC) overprint: off
  - Page 183: Color image 1008.0x58.38 pt 300.0 ppi RGB (ICC) overprint: off
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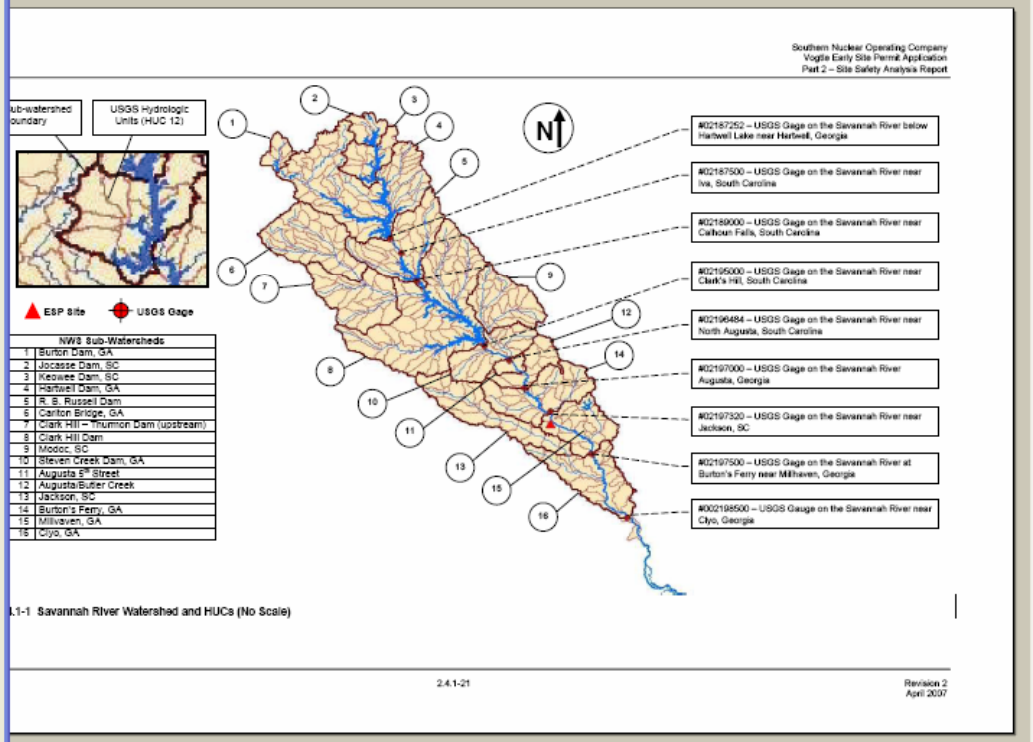
Line Style | 1 pt | Line Thickness | Arrow | Opacity | Author: x2jmancu | Keep tool selected



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start | 2 Micros... | S:\Workg... | 5 Adob... | PRINT SC... | Nuclear Development | ESP | 11:01 AM

Preflight

Profiles | Results | Report | Comments | Edit | Options

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Find: | Previous | Next

Line Style | 1 pt | Line Thickness | Arrow | Opacity | Author: x2jmancu | Keep tool selected

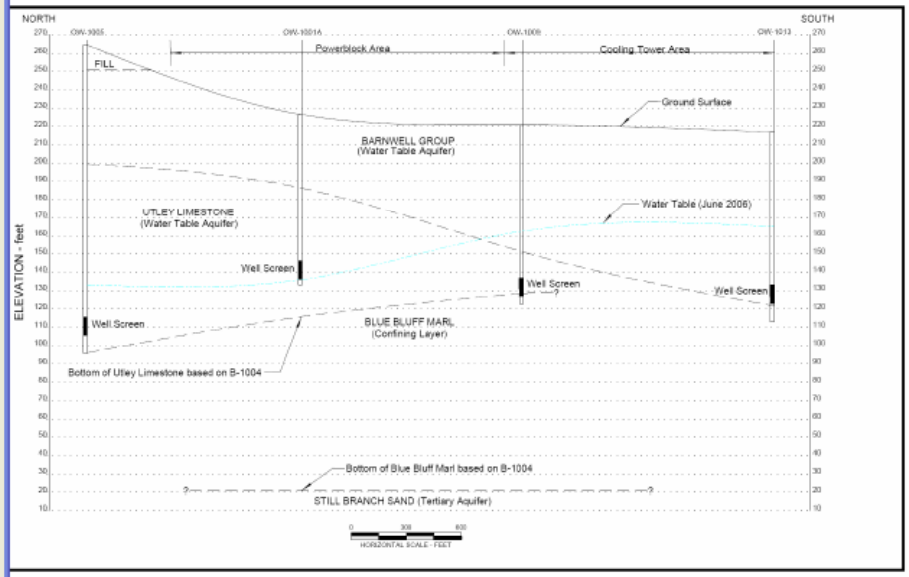

Figure 2.4.12-2A Hydrogeologic Cross-Section of the Water Table Aquifer at the VEGP Site

Hide Toolbars | 180 of 230

start | 2 Micros... | S:\Workg... | 5 Adob... | PRINT SC... | Nuclear Development | ESP | 11:02 AM

Preflight

Profiles | Results | Report | Comments | Edit | Options

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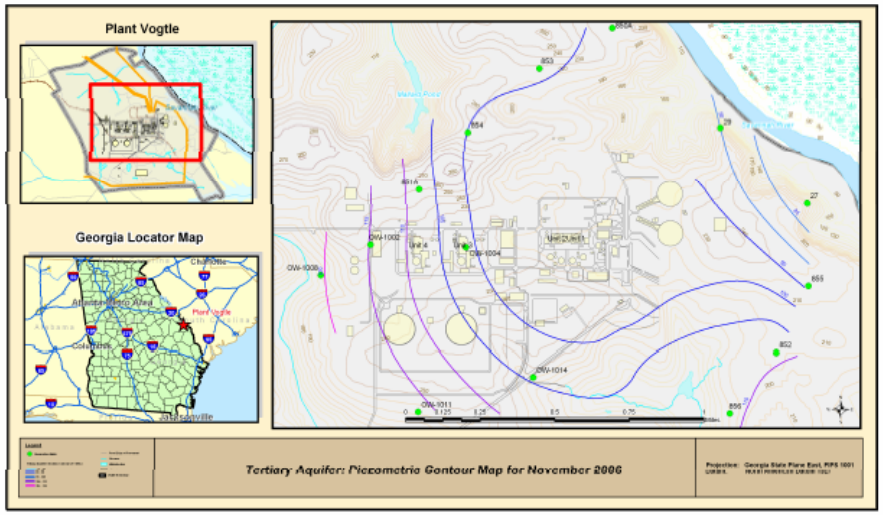

Figure 2.4.12-26 Tertiary Aquifer: Piezometric Contour Map for November 2006

2.4.12-97

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April 2007

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2.5 Geology, Seismology, and Geotechnical Engineering

The geological, seismological, and geotechnical engineering properties of the VEGP site are presented in this section. Section 2.5.1 describes basic geological and seismologic data. Section 2.5.2 describes the vibratory ground motion at the site, including an updated seismicity catalog, description of seismic sources, and development of the Safe Shutdown Earthquake (SSE) ground motion. Section 2.5.3 describes the potential for surface faulting in the site area, and Sections 2.5.4, 2.5.5, and 2.5.6 describe the stability of subsurface materials and foundations at the site.

NRC Regulatory Guide 1.165, *Identification and Characterization of Seismic Sources and Determination of Safe Shutdown Earthquake Ground Motion* (RG 1.165) (1997), Appendix D, *Geological, Seismological and Geophysical Investigations to Characterize Seismic Sources*, provides guidance for the level of investigation recommended at different distances from a proposed site for a nuclear facility.

The following four terms for site map areas are designated by RG 1.165:

- Site region - area within 200 mi (320 km) of the site location.
- Site vicinity - area within 25 mi (40 km) of the site location.
- Site area - area within 5 mi (8 km) of the site location.
- Site - area within 0.6 mi (1 km) of the proposed VEGP Unit 3 and 4 locations.

These terms are used in Sections 2.5.1 through 2.5.3 to describe these specific areas of investigation. These terms are not applicable to other sections of this ESP application.

SNC conducted field investigations and performed extensive research of relevant geologic literature to reach the conclusion that no geologic or seismic hazards have the potential to affect the VEGP site except the Charleston seismic zone and a small magnitude local earthquake occurring in the site region. These topics are discussed in greater technical detail in Section 2.5.2. There is only limited potential for non-tectonic surface deformation in shallow deposits within the 5-mi site area radius, and this potential can be mitigated by means of excavation.

RG 1.165 states that the vibratory design ground motion for a new nuclear power plant may be developed using either the Electric Power Research Institute (EPRI) or Lawrence Livermore National Laboratory (LLNL) probabilistic seismic hazard methodology. As described in Section 2.5.2, the EPRI methodology has been used to develop the SSE ground motion for the VEGP site. RG 1.165 further requires that the geological, seismological, and geophysical database be updated and any new data be evaluated to determine whether revisions to the

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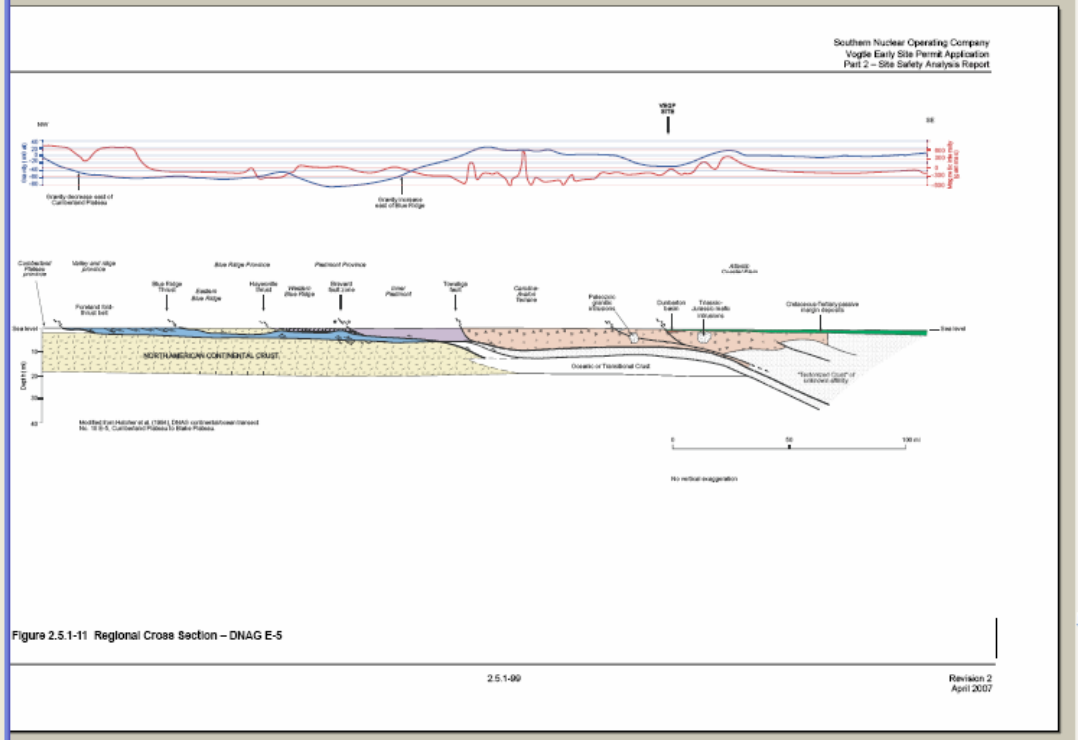

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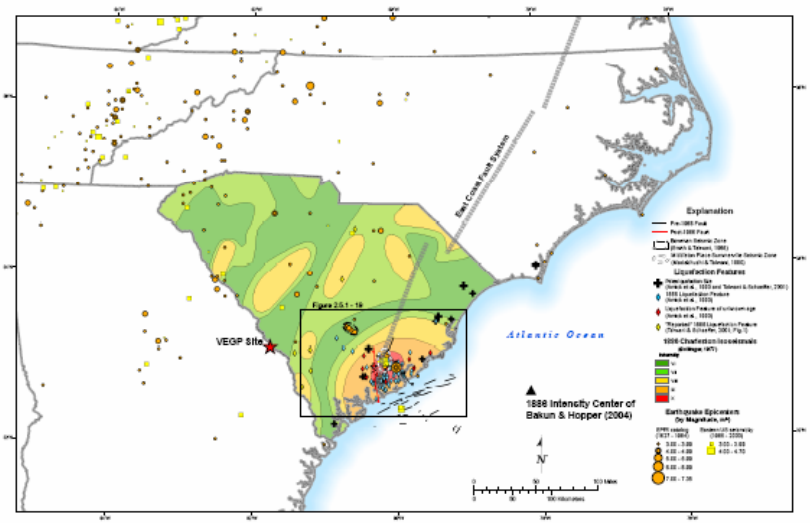

Figure 2.5.1-18 Regional Charleston Tectonic Features

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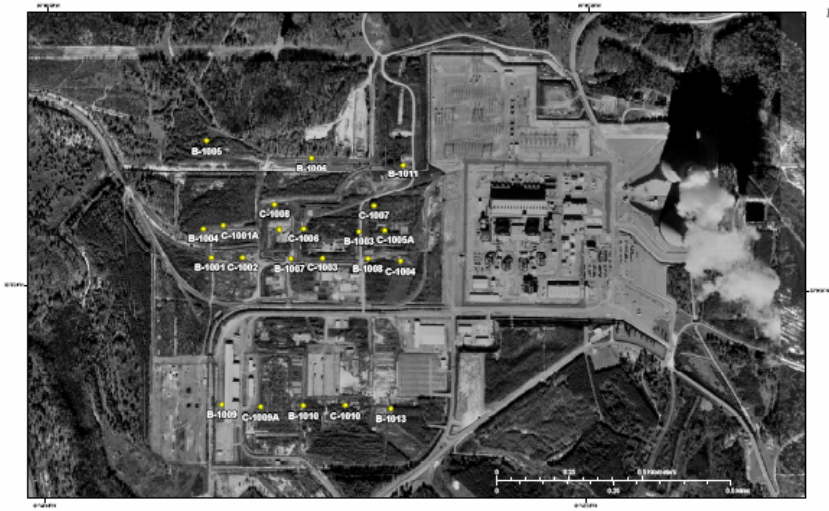

Figure 2.5.1-33 Site Borings Location Map

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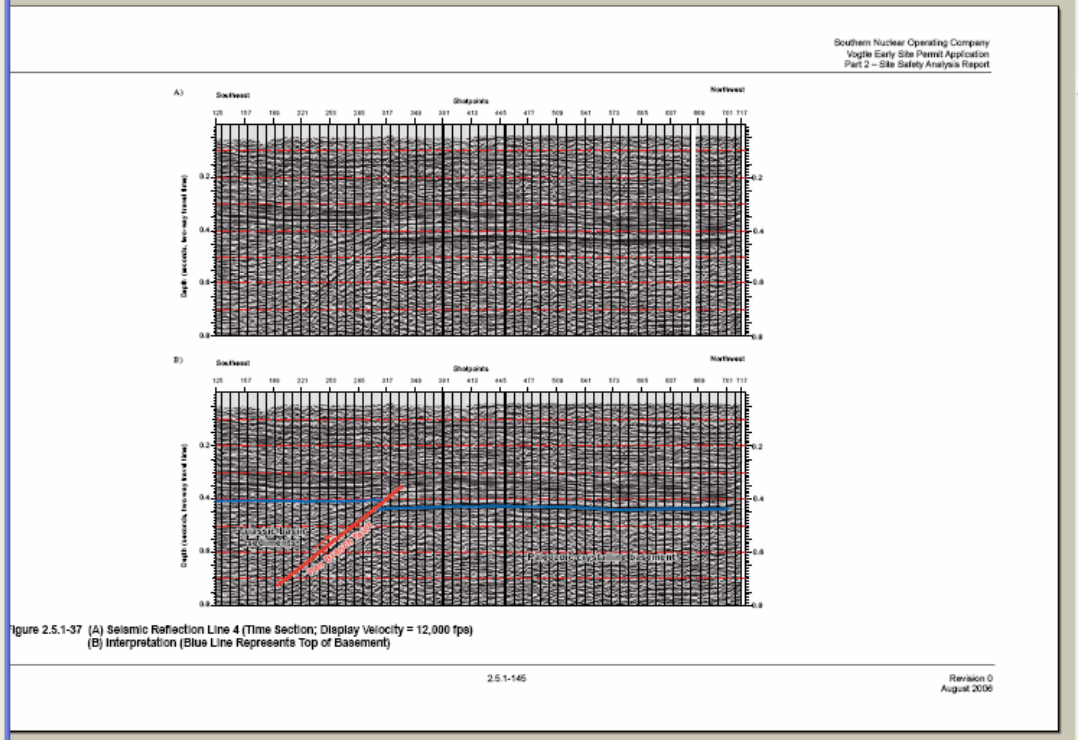

Figure 2.5.1-37 (A) Seismic Reflection Line 4 (Time Section; Display Velocity = 12,000 fps)
(B) Interpretation (Blue Line Represents Top of Basement)

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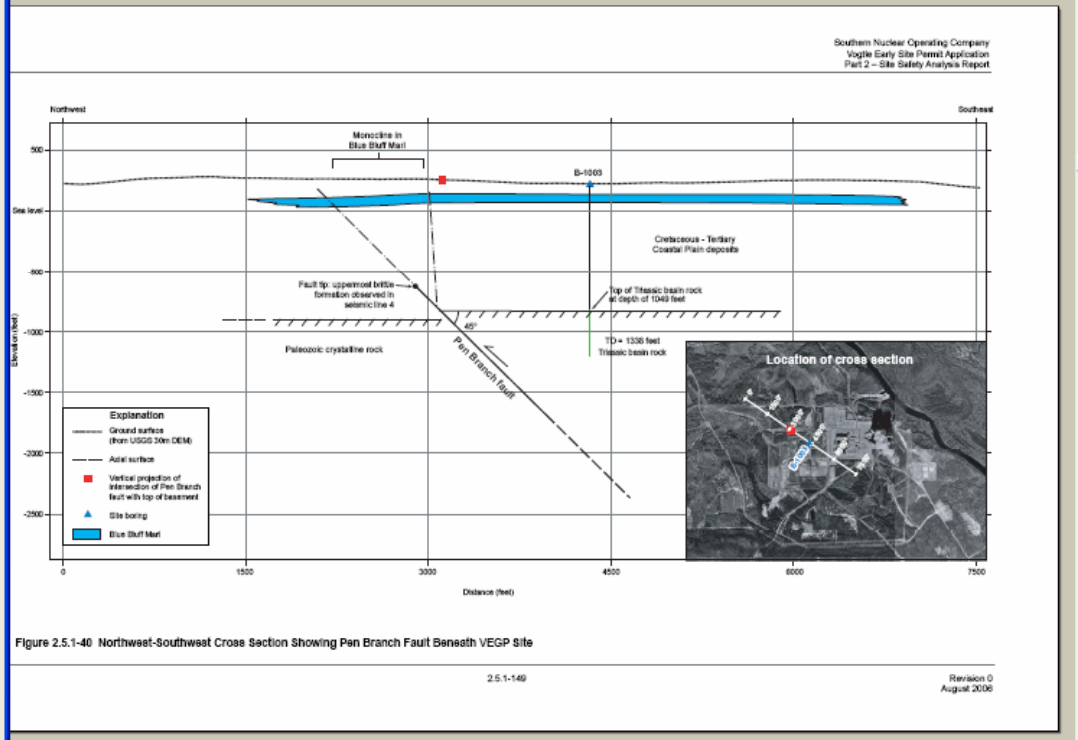

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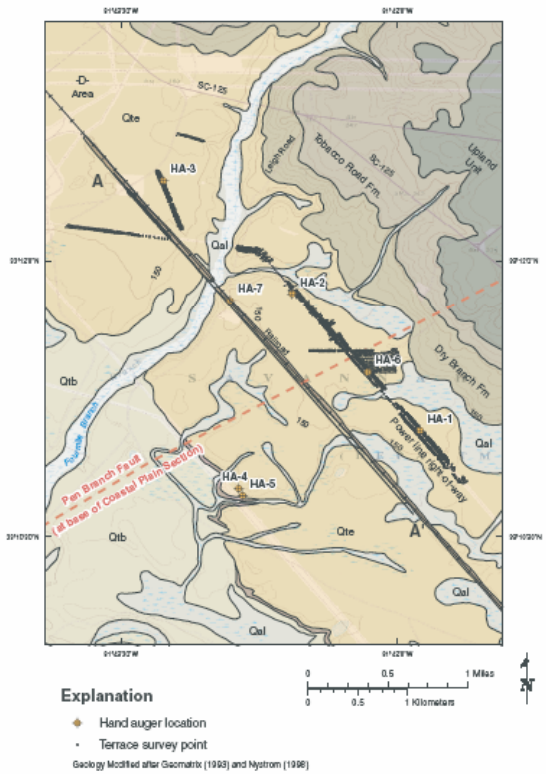

Figure 2.5.1-43 Geologic Map of Qte Terrace Study Area

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